Fujitsu recommends Windows.

Data Sheet
FUJITSU ESPRIMO Q520 Desktop PC

The Mini with More PC per cm³

The FUJITSU ESPRIMO Q520, featuring full desktop PC functionality in a stylish and compact housing, is a real eye-catcher on your desk. Latest generation Intel® Core™ processors deliver the performance to meet your daily office needs. The Zero Noise functionality guarantees silent operation. An integrated 90%-efficient power supply cuts your energy bill. The innovative Low Power Active Mode provides businesses with a wide range of new usage scenarios like telephony and video conferencing. Its compact size and wide range of interfaces make the FUJITSU ESPRIMO Q520 your first choice for locations where space saving is key.

An elegant mini PC for challenging office tasks
Eye-catcher on every desk with a modern and exclusive design
- Fully equipped PC with a volume of ~2.0 liters - based on standard desktop technology

Always available office PC
Provides businesses with a wide range of new usage scenarios like telephony and video conferencing
- Combines availability with energy saving. The PC looks like it is off but background application tasks can still run in the Low Power Active Mode

Made in Germany
Outstanding quality and stable functions based on German production standards
- The development, production and function tests - all under one roof in Germany

Superb usability
Pleasant working environment due to a tidy desk
- Horizontal or vertical operations and an integrated VESA mount, service door for easy upgrade of major components

Latest technology
Get your office job done fast and reliable
- 4th generation Intel® Core™ processor family

reddot design award winner 2012

Components

Processor	Intel® Core™ i7-4785T processor (4 Cores / 8 Threads, 2.20 GHz, up to 3.2 GHz, 8 MB, Intel® HD Graphics 4600) *
	Intel® Core™ i5-4590T processor (4 Cores / 4 Threads, 2.00 GHz, up to 3.0 GHz, 6 MB, Intel® HD Graphics 4600) *
	Intel® Core™ i3-4160T processor (2 Cores / 4 Threads, 3.10 GHz, 3 MB, Intel® HD Graphics 4400)
	Intel® Core™ i3-4150T processor (2 Cores / 4 Threads, 3.00 GHz, 3 MB, Intel® HD Graphics 4400)
	Intel® Core™ i3-4130T processor (2 Cores / 4 Threads, 2.90 GHz, 3 MB, Intel® HD Graphics 4400)
	Intel® Pentium® processor G3250T (2 Cores / 2 Threads, 2.80 GHz, 3 MB, Intel® HD Graphics)
	Intel® Pentium® processor G3240T (2 Cores / 2 Threads, 2.70 GHz, 3 MB, Intel® HD Graphics)
	Intel® Pentium® processor G3220T (2 Cores / 2 Threads, 2.60 GHz, 3 MB, Intel® HD Graphics)
	Intel® Celeron® processor G1840T (2 Cores / 2 Threads, 2.50 GHz, 2 MB, Intel® HD Graphics)
	*with Intel® Turbo Boost Technology (clock speed and performance will vary depending on workload and other variables)
Operating systems	
Operating system	Windows 8.1 Windows 8.1 Pro Windows 7 Professional 64-bit Windows 7 Professional 32-bit
Memory modules	2 GB (1 module(s) 2 GB) DDR3, non-ECC, 1,600 MHz, PC3-12800, SO DIMM
	4 GB (1 module(s) 4 GB) DDR3, non-ECC, 1,600 MHz, PC3-12800, SO DIMM
	8 GB (1 module(s) 8 GB) DDR3, non-ECC, 1,600 MHz, PC3-12800, SO DIMM
Hard disk notes	Up to 20 GB of HDD space is reserved for system recovery SSHD (Solid State Hard Disk, Hybrid drive) SSD (Solid State Disk) SED (Self-Encrypting Drive)
Hard disk drives (internal)	SSHD SATA III, 5,400 rpm, 500 GB, 2.5-inch
	SSD SATA III Premium, 256 GB, 2.5-inch
	SSD SATA III Premium, 128 GB, 2.5-inch
	SSD SATA III, 256 GB, 2.5-inch, SED
	SSD SATA III, 256 GB, 2.5-inch
	SSD SATA III, 128 GB, 2.5-inch, SED
	SSD SATA III, 128 GB, 2.5-inch
	HDD SATA III, 7,200 rpm, 500 GB, 2.5-inch
	HDD SATA III, 7,200 rpm, 320 GB, 2.5-inch
	HDD SATA II, 5,400 rpm, 1,000 GB, 2.5-inch*
	HDD SATA II, 5,400 rpm, 750 GB, 2.5-inch*
	HDD SATA II, 5,400 rpm, 500 GB, 2.5-inch*
	HDD SATA II, 5,400 rpm, 320 GB, 2.5-inch*
Graphics	DP to DVI-D (single link) Adapter Cable
Drives (optional)	BD Triple Writer SATA Slot-in slim
	DVD Super Multi Slot-in slim
Interface add on cards/components (optional)	
	WLAN 802.11 b/g/n (2x2) and Bluetooth (dedicated regions only, not for Indonesia)
	WLAN 802.11 a/g/n (2x2) and Bluetooth (dedicated regions only, not for Indonesia)

Base unit

Base unit	ESPRIMO Q520
Mainboard	
Mainboard type	D3223
Formfactor	proprietary
Chipset	Intel® H81
Processor socket	LGA 1150
Processor quantity maximum	1
Memory slots	2 SO DIMM (DDR3, 1600 MHz)
Supported capacity RAM (max.)	16 GB
Memory frequency	1,600 MHz
Memory notes	Dual channel support. For dual channel performance, a minimum of 2 memory modules have to be ordered. Capacity per channel has to be the same
LAN	10/100/1,000 MBit/s Intel® I217LM
Integrated WLAN	1 (optional with Bluetooth together)
BIOS version	AMI Aptio 4.6
BIOS features	BIOS Flash EPROM update by software Recovery BIOS Unified Extensible Firmware Interface (UEFI)
Audio type	On board
Audio codec	Realtek ALC671
Audio features	Buzzer
I/O controller on board	
Serial ATA total	2
thereof SATA III	2
Controller functions	Serial ATA II (3 Gbit) Serial ATA III (6 Gbit) NCQ AHCI
Interfaces	
Audio: line-out / headphone	1
Audio: line-in / microphone	1
USB 2.0 total	4
USB 3.0 total	2
USB front	2x 3.0
USB rear	4x 2.0
VGA	1 (via DVI to VGA adapter, part of shipment)
DisplayPort	1
DVI	1 (DVI-I)
Ethernet (RJ-45)	1
Multicardreader	1 (SD, MMC)
Interface Module notes	Anytime USB charge functionality
Input device / components	
	Optical USB wheel mouse
Input devices (optional)	KBPC PX ECO Mouse M440 ECO
Drive bays	
Drive bays total	2
2.5-inch internal bays	1
5.25-inch external bays	1
Drive bay notes	slim slot-in for 5.25"
Graphics on board	
Graphics brand name	Intel® HD Graphics, HD Graphics 4400, HD Graphics 4600 (depending on processor)

Graphics on board	
Shared video memory	up to 1,782 MB
TFT resolution (VGA)	1,024 x 768 pixel 1,280 x 1,024 pixel 1,360 x 768 pixel 1,440 x 900 pixel 1,600 x 900 pixel 1,600 x 1,200 pixel 1,680 x 1,050 pixel 1,920 x 1,080 pixel
TFT resolution (DVI)	1,280 x 1,024 pixel 1,360 x 768 pixel 1,440 x 900 pixel 1,600 x 900 pixel 1,680 x 1,050 pixel 1,920 x 1,080 pixel 1,920 x 1,200 pixel
TFT resolution (DisplayPort)	1,280 x 1,024 pixel 1,360 x 768 pixel 1,440 x 900 pixel 1,600 x 900 pixel 1,680 x 1,050 pixel 1,920 x 1,080 pixel 1,920 x 1,200 pixel 2,560 x 1,440 pixel 2,560 x 1,600 pixel 3,840 x 2,160 pixel (requires Intel® Core™ i3, i5 or i7 processor)
Graphics features	Dual display support DirectX® 11.1 HDCP support Open CL® 1.2 OpenGL® 4.0 One DisplayPort connector can be converted to DVI-D or HDMI with an optional external adapter
Graphics notes	up to 1 GB dedicated video memory (main memory owned and locked for graphics use) Tested resolutions, depending on display type additional resolutions and frequencies possible Shared memory depending on main memory size and operating system Resolution (color depth up to 32 Bit/pixel) For TFT we recommend using 60Hz
Electrical values	
Power efficiency note	power supply efficiency (at 115V/230V; 10% / 20% / 50% / 100% load) : 83% / 87% / 90% / 88%
Rated voltage range	100 V - 240 V
Rated frequency range	50 Hz - 60 Hz
Operating voltage range	90 V - 264 V
Operating line frequency range	47 Hz - 63 Hz
Max. output of single power supply	65 W (integrated in system)
Power factor correction/active power	No (meets input harmonic current according EN61000-3-2)
Monitor outlet	No
Power consumption	
Power consumption note	See white paper Energy Consumption
Link to Energy White Paper	http://docs.ts.fujitsu.com/dl.aspx?id=28ceea4d-a565-4450-8cbe-393fef8b4864
Heat dissipation	
Heat dissipation notes	See white paper Energy Consumption
Noise emission	
Related Processors for noise	Intel® Core i7-4765T
Standard noise emission	2x2 GB, HDD, ODD, Windows According to ISO 7779:2010, ECMA-74
Standard noise notes / description	A-weighted sound power level Lwad (in B) / Workplace related A-weighted sound pressure level LpAm (in dB(A))

Noise emission	
Standard noise operation mode: CPU 50% load	tbd
Standard noise operation mode: HDD load	3.0 B / 17 dB(A) Bystander ; 19 dB(A) Operator position
Standard noise operation mode: Idle mode	SSD: no noise emmision, 2.5" HDD: 3.0 B / 17 dB(A) Bystander ; 17 dB(A) Operator position
Standard noise operation mode: ODD load	4.5 B / 31 dB(A) Bystander ; 34 dB(A) Operator position
Standard noise operation mode: Office applications 2.0	SSD: no noise emmision, 2.5" HDD: 3.0 B / 17 dB(A) Bystander ; 18 dB(A) Operator position
Blue angel noise emission according certification	According to ISO 7779:2010, ECMA-74 for max. possible configuration
Blue angel noise notes / description	A-weighted sound power level Lwad (in B); 1B = 10dB
Blue angel noise operation mode: HDD load	3.2 B = 32 dB
Blue angel noise operation mode: Idle mode	3.1 B = 31 dB
Blue angel noise operation mode: ODD load	4.7 B = 47 dB
Dimensions / Weight / Environmental	
Dimensions (W x D x H)	185 x 191 x 58.7 mm 7.28 x 7.52 x 2.31 inch
Operating position	Vertical / horizontal (no feet needed)
VESA mount	integrated (100mm), applicable for selected monitors only, additional mounting kit for specific monitors optional
Weight	1.6 kg
Weight (lbs)	3.53 lbs
Weight notes	Weight may vary depending on actual configuration (without ODD)
Operating ambient temperature	10 - 35 °C (50 - 95 °F)
Operating relative humidity	5 - 85 % (relative humidity)
Compliance	
Product	ESPRIMO Q520
Model	MPC2
Germany	TÜV GS Blauer Engel / Blue Angel
Europe	CE Nordic Swan
USA/Canada	FCC Class B cCSAus
Global	RoHS (Restriction of hazardous substances) WEEE (Waste electrical and electronic equipment) Microsoft Operating Systems (HCT / HCL entry / WHQL) EPEAT® Gold (dedicated regions) ENERGY STAR® 6.0 (dedicated regions)
Compliance notes	This product is free of poly®vinyl chloride (PVC) when ordered with the optional PVC free power cord
Compliance link	http://globalsp.ts.fujitsu.com/sites/certificates
Additional Software	
Additional software (preinstalled)	Workplace Protect (secure authentication solution) Adobe® Reader® (pdf reader) McAfee Multi Access Security (anti-virus and internet security software; 60 days trial version) Win7: Fujitsu Recovery (hard disk based recovery) Win8: Microsoft Push Button Recovery (hard disk based recovery) Microsoft Office (buy license to activate the pre-installed Microsoft Office)

Additional Software	
Additional software (optional)	Recovery DVD for Windows® Drivers & Utilities DVD (DUDVD) CyberLink PowerDVD BD (playback software for Blu-ray Disc™) CyberLink PowerDVD DVD (playback software for DVD) Nero Essentials XL
Manageability	
Manageability technology	DeskUpdate Driver management PXE 2.1 Boot code Wake up from S5 (off mode) WoL (Wake on LAN)
Manageability software	DeskView Client DeskView Instant BIOS Management DeskView Integration for Symantec Management Platform
DeskView components	Inventory Management BIOS Management Driver Management Security Management Alarm Management
Supported standards	DMI PXE WMI
Manageability link	http://www.fujitsu.com/fts/manageability
Security	
Physical Security	Kensington Lock support Housing Lock Plate (to use with Kensington lock)
System and BIOS Security	Boot sector virus protection Write protect option for the Flash EPROM Control of external interfaces External USB ports can be disabled separately Embedded security (TPM 1.2) (optional)
User Security	User and supervisor BIOS password Hard disk password Access protection via external SmartCard reader (optional)
Serviceability	
Packaging information	
Packaging dimension (mm)	395 x 198 x 284 mm
Packaging dimension (inch)	15.55 x 7.8 x 11.18 inch
Max. quantity / pallet	84
Material - Weight (g) Carton	670 g
Material - Weight (lbs) Carton	1.48 lbs
Material - Weight (g) EPS / PS	10 g
Material - Weight (lbs) EPS / PS	0.02 lbs
Material - Weight (g) PE	125 g
Material - Weight (lbs) PE	0.28 lbs
Packaging notes	If keyboard is inlcuded in packaging: 1.)packaging dimension is increasing to: 500 x 208 x 290mm / (19.69 x 8.19 x 11.42 inch); 2.) material weight of carton will increase to 880g; 3.) max. quantity/pallet = 56; printed user documentation is bleached in chlorin free process;
Warranty	
Standard Warranty	1 year (depending on country)
Service level	Bring-In / Onsite Service (for countries within region FTS CEMEA&I, for all other countries depending on local regulations, minimum: 1 year material warranty)
Warranty Terms & Conditions	http://support.ts.fujitsu.com/warranty
Maintenance and Support Services - the perfect extension	
Recommended Service	9x5, Response Time: Next Business Day
Spare Parts availability	5 years after end of product life

Warranty

Service Weblink	http://www.fujitsu.com/fts/services/support

Recommended Accessories

USB 3.0 Port Replicator PR08	The Fujitsu USB 3.0 Port Replicator PR08 is the perfect solution for hot-desk environments. It connects your notebook to all of your peripherals with a single USB 3.0 plug. This device can generate additional DisplayPort and DVI performance, enabling your system to run up to four screens separately at your workplace, i.e. a notebook, the notebook's external graphics, and the two additional graphic displays from your PR08. This makes the PR08 the optimal device for shared desktop solutions. A system-independent second network further increases your computing possibilities. On top of all this, the device provides audio and USB-hub functionality for even more desktop enhancement.	Order Code: S26391-F6007-L400
Display B22W-7 LED	The FUJITSU Display B22W-7 LED offers best ergonomics and usability for intensive office use with a 4-in-1 stand.	Order Code: S26361-K1472-V140
Display B24W-7 LED	The FUJITSU B24W-7 LED Display with excellent ergonomics makes intensive office work extremely comfortable. This highly reliable display offers superb usability and power-saving features to help reduce your labor as well as energy costs. With wide viewing angle technology, flexible connectivity, and easy manageability, the FUJITSU B24W-7 LED Display can help you improve productivity.	Order Code: S26361-K1497-V140
CELVIN® Drive M200	The CELVIN Drive M200 is an ultra-portable and high-class storage device. Since it is compatible with USB3.0 and USB 2.0, it can be used with a large variety of devices. It is ideal for notebook and desktop users. It makes data backup easier and faster than ever.	Order Code: S26341-F103-L500
SOUNDSYSTEM DS E2000 Air	The new more powerful SOUNDSYSTEM DS E2000 Air gives you impressive, well-balanced sound throughout the frequency band. It is an unbeatable USB speaker set with a surprisingly small form factor. The robust satellite speakers are decorated with a deluxe piano finish and the base is adorned with warm ambient lighting.	Order Code: S26391-F7128-L600
UC&C USB Headset Stereo H650e	The UC&C USB Headset Stereo H650e is the ultimate in style and functionality. Long, uncomfortable work calls are a thing of the past thanks to the cushioned ear pads and crystal clear sound. Adjustable headband and microphone provides the perfect fit for everyone. Optimized for Microsoft® Lync™ the headset displays a red 'in-call' LED to let your co-workers know when you're available, thus helping to boost office productivity.	Order Code: S26391-F7139-L10
Busylight UC Lync	Boost communication and productivity in the office with the Busylight. The genius of this device is that it both advertises your present working state and promotes the use of Lync, making your office more efficient. Perfect for the work environment in open-plan offices, the Busylight makes users feel comfortable with Lync's features and eases the transition from traditional office internal telephone systems.	Order Code: S26391-F7139-L30

Wireless Keyboard Set LX901

The Wireless Keyboard LX901 is a top of the line desktop solution for lifestyle orientated customers, who want only the best for their desk. This superb keyboard set with offers ambitious users more functions, security and better features than a conventional interface device. It even includes 2.4 GHz technology and 128 AES encryption for security.

S26381-K565-L4** (**: Country specific variation)

More information

Fujitsu OPTIMIZATION Services

In addition to FUJITSU ESPRIMO Q520, Fujitsu provides a range of platform solutions. They combine reliable Fujitsu products with the best in services, know-how and worldwide partnerships.

Fujitsu Portfolio
Build on industry standards, Fujitsu offers a full portfolio of IT hardware and software products, services, solutions and cloud offering, ranging from clients to datacenter solutions and includes the broad stack of Business Solutions, as well as the full stack of Cloud offering. This allows customers to leverage from alternative sourcing and delivery models to increase their business agility and to improve their IT operation's reliability.

Computing Products
www.fujitsu.com/global/services/computing/

Software
www.fujitsu.com/software/

More information

Learn more about FUJITSU ESPRIMO Q520, please contact your Fujitsu sales representative or Fujitsu Business partner, or visit our website.
www.fujitsu.com/fts/ESPRIMO

Fujitsu green policy innovation

Fujitsu Green Policy Innovation is our worldwide project for reducing burdens on the environment.
Using our global know-how, we aim to contribute to the creation of a sustainable environment for future generations through IT.
Please find further information at http://www.fujitsu.com/global/about/environment

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